

SEP 1 1 2007

AMENDMENTS TO THE CLAIMS

The below listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Currently amended) A method of determining the existence of or a predisposition to Alzheimer's disease in a subject animal, autoimmune disease of other neurodegenerative diseases, the method comprising analysing a DNA bearing sample taken from a said subject animal to determine the allelic variants present at one or more of the SNP loci at positions -1082, -819 and -592 of the gene encoding IL-10, wherein a polymorphism selected from the group consisting of a G to A substitution at position -1082, a T to C substitution at position -819 and an A to C substitution at position -592 is determined.
- 2. (Canceled)
- 3. (Currently amended) A method according to claim 1 or claim-2 which further comprises analysing the sample to determine the presence of a -174C allele alleles present for the gene[[s]] encoding IL-6 and Apo-E 4 carrier status.
- 4. (Currently amended) A method according to claim 3, which further comprises analysing the sample to determine the presence of the -1082A allele alleles present for the gene encoding IL-1.
- 5. (Withdrawn) A method of treating Alzheimer's disease, autoimmune disease or other neurodegenerative disorder which comprises augmenting the function of a gene having one of the allelic polymorphisms of IL-10 shown in Table I.
- 6. (Withdrawn) A method of treating Alzheimer's disease, autoimmune disease or other neurodegenerative disorder which comprises decreasing the function of a gene having one of the allelic polymorphisms of IL-10 shown in Table I.

- 7. (Withdrawn) A method according to claim 5 where the modulation of the function of the gene is by genetic therapy.
- 8. (Withdrawn) A method according to claim 5 where the modulation of the function of the gene is by pharmacological intervention.
- 9. (Withdrawn) A method according to claim 8 where the pharmacological intervention is using one or more compounds that enhance or inhibit antigen specific production of interleukin-10 and, optionally, one or more other cytokines.
- 10. (Withdrawn) A method according to claim 9, characterised in that the other cytokine is selected from the group consisting of interleukin-1 (α or β), interleukin-2, interleukin-3, interleukin-4, interleukin-5, interleukin-6, interleukin-7, interleukin-8, interleukin-9, interleukin-11, interleukin-12, interleukin-13, interleukin-14, interleukin-15, interleukin-16, interleukin-17, interferon-α, interferon-β, interferon-γ, TNF-α, TNF-β, G-CSF, GM-CSF, M-LSF, and TGF-β.
- 11. (Withdrawn) DNA fragments and cDNA fragments comprising the allelic polymorphs of Table I for use in the method of claim 7.
- 12. (Withdrawn) Use of the DNA or cDNA fragments of claim 11 in a method of screening compounds for the ability to modulate the allelic polymorphisms of Table I.
- 13. (Withdrawn) Use of the DNA or cDNA fragments of claim 11 in a method of screening compounds for the ability to modulate or prevent Alzheimer's disease.
- 14. (Withdrawn) Use of cytokines in the preparation of a medicament for the treatment or prophylaxis of diseases which are not neoplastic.

- 15. (Withdrawn) Use according to claim 14, characterised in that the disease is a neurodegenerative disorder or an autoimmune disorder.
- 16. (Withdrawn) Use according to claim 14, characterised in that the use is for Alzheimer's disease.
- 17. (Withdrawn) Use according to any one of claims 14, characterised in that the cytokine is selected from interleukin-1 (α or β), interleukin-2, interleukin-3, interleukin-4, interleukin-5, interleukin-6, interleukin-7, interleukin-8, interleukin-9, interleukin-10, interleukin-11, interleukin-12, interleukin-13, interleukin-14, interleukin-15, interleukin-16, interleukin-17, interferon-α, interferon-β, interferon-γ, TNF-α, TNF-β, G-CSF, GM-CSF, M-LSF, and TGF-β.
- 18. (Withdrawn) A method according to claim 6 where the modulation of the function of the gene is by genetic therapy.
- 19. (Withdrawn) A method according to claim 6 where the modulation of the function of the gene is by pharmacological intervention.
- 20. (Withdrawn) A method according to claim 19 where the pharmacological intervention is using one or more compounds that enhance or inhibit antigen specific production of interleukin-10 and, optionally, one or more other cytokines.